ANNUAL NUTRIENT BUDGET & MANAGEMENT JOB SHEET

1) SITE (FIE. Producer	LD) INF (JKMAII	ON & LOCATI	<i>ON</i> – .	ATTAC		FIELD		110	Soil Texture	ia Comma (Cand I cam	Cand		
Field Name										<u>sou rexture</u> 1dy Loam), t					
Tract / Field # T / F			Prior Crop					Ind	organic N sł	shall occur, except when winter					
Soil Map Unit				Planned Crop											
¹ Soil Texture			2 R	ealisti	c Yield	(RY) Goal				Y = (5-year A		d) X 105%			
Legal Descri	ption _	,	, Section		Towns	shipN,	Range _	_ DE (or 🔲 W	, Count	y:	_			
□Na If "Y	or Ye ES" - Co	es - Man mplete I	K ASSESSMEN ure or Organio P-Index & Che V – <u>ATTACH C</u>	c-By F ck Ra	ting:	Low,	Mediun	ı, 🗌 Hi	last 3 gh, or	years)? Very H	ligh				
					NU'	TRIENT BU	DGET								
					Nutrient							(12) Notes & Calculations			
RECOMMENDATIONS (lb/Acre)				N	P_2O_5	K_20	S	Zn		/					
(4) Requirements (lb/A) – (NEEDS)															
CREDITS (lb/Acre)															
(5) Soil T															
(6) Soil Organic Matter Credit															
(7) Irrigation Water Credit (Inches:)															
(8) Legume (Type:) Credit (9) Manure / Organic Applied															
			Total Rate												
Date Appl	ied Sour	ce (Type)	Applied												
(10) TOTAL	CREDIT	S (Add ((5) thru (9))												
			NDATIONS L CREDITS)												
– (I VL I		SIUIA	L CREDITS)												
		(13) <i>RE</i>	ECOMMENDE (Obtoine			D NUTRIEN I Test Repo					EAR)				
Source	Formul	ation				al (Gross) R				t) Nutrient	s Annlied ((lh / Acre)	`		
(Type)	or Fo		Timing & Met	thod		olied Per Ac			P_2O_5	,		Zn	, 		
(-51-5)						,	- 11		- 203	1120	~				
N. 1.01	7 1 11 11		TOTAL NUTR			NNED (lb/a	cre)								
Nitrification	n-Inhibito	r Planne	ed? Yes or	No)										
	(.	14) ACT	UAL NUTRIE	VT AP	PICAT	TON (Comp	lete Afte	r Applic	cation o	or End of S	Season)				
Date			Formulation o					Actual (Net) Nutrients Applied (lb. / Acre)							
(mo/yr) Sour		Form		Applied Per Acre				N I				Zn			
_															
			OTAL MITTER	ENTE	A DDT	IED (lk/a	2)								
Nitrification	n-Inhihite		OTAL NUTRI		APPL	ILD (ID/acr	<i>(</i>)					1	I		
(15) Actual			bu/A; T/A; etc												

ANNUAL NUTRIENT BUDGET & MANAGEMENT PLAN INSTRUCTIONS

Provide/Complete the following information. For additional instructions, see Practice Speciation S-590 for Nutrient Management.

- 1. Site Information & Location Attach Copy of Map (Aerial, Topography, USGS, etc.)
 - Predominant Soil Map Unit, where Predominant is the largest % soil unit in that field.
 - Soil Texture, complete N Leaching Assessment if Soil Texture is Coarse.
 - <u>Calculate</u> Realistic Yield (RY) Goal, where RY = 5-year average yield x 105%
 - o Example: $100 \text{ bu/ac.} \times 105\% = 105 \text{ bu/ac} = RY.$

Coarse	Sand, Loamy Sand, Sandy Loam
Medium	Silt, Silt Loam, Loam
Fine	Silty Clay Loam, Silty Clay, Clay, Clay Loam, Sandy Clay Loam, Sandy Clay

- 2. If Organic By-Products (manure, sludge, biosolids) are applied, <u>determine</u> Phosphorus-Index Risk Rating. (See S-590)
- 3. Attach Copy of Soil Test Report with Budget Report should not be older then 3 years.
- 4. Nutrient Requirements (lb/acre)
 - For Corn (grain): N requirement = $(RY \times 1.2) + 35$
 - For crops other than corn, refer to Extension EC155 "Nutrient Management for Agronomic Crops in Nebraska" or NebGuides.
- 5. Soil Test Residual Nitrate-N (for Corn Only) Use information from soil analyses

STEP 1 – <u>Calculate</u> Nitrate-N Average Weighted Value (AWV) as follows (or Proceed to Step 2 if done): {Soil layer (in.) x NO₃ (ppm)} + {Soil layer (in.) x NO₃ (ppm)} + {Soil layer (in) x NO₃ (ppm)} = AWV Total Soil Test Depth

STEP 2:- Calculate Soil Test Residual Nitrate-N = {(Average Weighted Value for N (ppm)) x 8}

*IF no information is reported for soil layers of 24"- 48" or 36"- 48", use 3 ppm.

- 6. Determine the Soil Organic Matter (O.M.) N Credit
 - For Corn: Soil O.M. N Credit = {O.M. % (from soils report) x RY x 0.14}
 - For Other Crops: based on University software, NebGuides or Extension Circulars.
- 7. Irrigation Water N Credit (only if concentration is 10 ppm or greater) Attach copy of water analysis if applicable:
 - Pounds of N/acre credited = $\{(inches pumped x ppm nitrate X 2.7) \div 12 inches\}$
- 8. Legume Credit (previous years crop (as applicable):
 - Use 45 lb. for soybeans; 150 lb. for alfalfa or 100 lb. for alfalfa on sandy soil soils (Planning Sheet 11).
- 9. Manure credit within last 3 years (as applicable) Attach Copy of Manure Analysis with Budget (if applicable).
 - Record manure type (slurry, liquid, solid) & rate (tons/acre; gallons/acre; ac-in/acre) applied from one to three years ago.
 - Credit is based on manure test, or NebGuide G1335 "Determining Crop Available Nutrients from Manure".
 - Record pounds of N, P₂O₅ and K credited from prior and current year manure applications.
- 10. Total Credit (lb/acre)
 - Total Credits = $\{ #5 + #6 + #7 + #8 + #9 \}$.
- 11. Nutrient Recommendations (lb/acre)
 - Nutrient Recommendation = {Total Credits (#10) minus Requirements/Needs (#4)}.
- 12. Notes & Calculations Use this area to record calculations or references.
- Record Recommended / Planned Nutrient Application for Current Year Obtain information from soil test or from crop consultant.
 - List the Nutrient Source (Type): Commercial, Manure, Biosolids, Compost, etc.;
 - List Formulation or Form of Nutrient: 82-0-0 gas; 10-34-0 dry; Slurry-Swine; Solid-Beef; Lagoon-Dairy, Runoff-Beef, etc.;
 - Provide Planned Timing & Method of nutrient application (example: spring planting, fall knife, etc.);
 - Provide Planned Total (Gross) Application Rate per Acre (lb/ac, gallons/ac, tons/ac) of each source;
 - Calculate Actual (Net) Application Rate (lb/acre) for each nutrient by source;
 - Calculate Total Nutrients (lb/acre) to be applied;
 - Check Yes or No if Nitrification-Inhibitor is planned.
- 14. Record Actual Nutrient Application for Current Year Obtain information from soil test or from crop consultant.
 - List the Date of Application (mo/yr);
 - List the Nutrient Source (Type): Commercial, Manure, Biosolids, Compost, etc.;
 - List Formulation or Form of Nutrient: 82-0-0 gas; 10-34-0 dry; Slurry-Swine; Solid-Beef; Lagoon-Dairy, Runoff-Beef, etc.;
 - Provide Total (Gross) Application Rate per Acre (lb/ac, gallons/ac, tons/ac) of each source;
 - Calculate Actual (Net) Application Rate (lb/acre) for each nutrient by source;
 - Calculate Total Nutrients (lb/acre) to be applied;
 - Check Yes or No if Nitrification-Inhibitor was used.
- 15. Record Actual Yield (bu/acre: tons/acre).